

stream powder-gas mix. Is established, that district speed of a stream powder-gas mix on everyone stage mill in 1,77 times less then speed beaters.

[1].

$$\check{S} - \check{S}^* = \check{S} \quad (1)$$

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$$\check{S}^* - \check{S} = \check{S}^* \quad (2)$$

$$\check{S} - \check{S}^* = \check{S} \quad (3)$$

$$\check{S} - \check{S}^* = \check{S} \quad (4)$$

,

:

$$N_c=\check{S}_p\cdot T_c \tag{2}$$

\check{S} – , $^{-1}$; – -
 , .

:

$$=r\cdot F_c \tag{3}$$

F_c – , ; r – -
 , .

F_c -

[2]:

$$F_c = ' \cdot K \cdot S \cdot \frac{\cdot v_c^2}{2} \tag{4}$$

ζ – ; S –
 , , 2 ; v_c – -
 , / ; ρ – , / 3 ; –
 , .

ζ . -

$$\text{Re} = 10^4 \div 10^6.$$

$$\zeta=0,44 \text{ [2].}$$

,

1,5, ,
 [3].

F_c

:

$$F_c = ' \cdot S \cdot K \cdot \frac{\cdot (\check{S} \cdot R)^2 \cdot z}{2} \quad (5)$$

$R -$, ; $z -$.

:

$$F_{\Sigma} = 0,5 \cdot ' \cdot S \cdot K \cdot \dots \cdot \check{S}_c^2 \cdot \sum_1^i (R_i^2 \cdot z_i) \quad (6)$$

$i -$; $R_i -$ -
 , ; $z_i -$.

(2), (3), (6)

, -

:

$$N_{\Sigma} = 0,5 \cdot \check{S}_p \cdot ' \cdot S \cdot K \cdot \dots \cdot \check{S}_c^2 \cdot \sum_1^i (R_i^3 \cdot z_i) \quad (7)$$

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:

$$\check{S}_c = \sqrt{\frac{2 \cdot N_{\Sigma}}{\check{S}_p \cdot ' \cdot S \cdot K \cdot \dots \cdot \sum_1^i (R_i^3 \cdot z_i)}} \quad (8)$$

$N_{\Sigma} -$,

, .

(8) (1)

ω^* .

v^*

:

$$v_i^* = \check{S}_i^* \cdot R_i \tag{9}$$

$$\begin{aligned} & \cdot \\ & \cdot \end{aligned} \tag{2}:$$

$$\dots = \dots \cdot \{ + \dots \left(1 - \{ \right) \tag{10}$$

$$\begin{aligned} & \rho - \\ & , \quad / ^3; \varphi - \end{aligned}$$

$$\varphi \qquad \qquad \qquad :$$

$$\{ = \frac{\overline{G}}{Q + \frac{G}{\dots}} \tag{11}$$

$$\begin{aligned} & Q - \\ & , \quad / . \end{aligned} \qquad \qquad \qquad , \quad ^3/ \ ; \ G -$$

$$(8) \qquad \qquad \qquad :$$

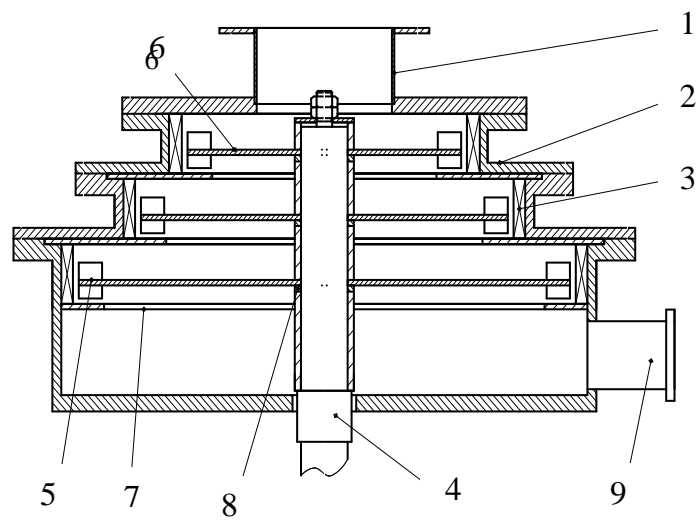
$$\check{S}_c = \sqrt{\frac{2 \cdot N_{\Sigma}}{\check{S}_p \cdot ' \cdot S \cdot K \cdot \dots \cdot \sum_1^i \left(R_i^3 \cdot z_i \right)}} \tag{12}$$

$$\begin{aligned} [4]: \qquad \qquad \qquad 300 \quad 3/ \ , \qquad \qquad \qquad 500 \quad / \ , \\ \qquad \qquad \qquad = 485 \quad ^{-1}, \qquad \qquad \qquad : \end{aligned}$$

$$\begin{aligned} R1 = 0,176 \quad , R2 = 0,236 \quad , R3 = 0,316 \quad , \qquad \qquad \qquad : \\ h = 18 \quad , \qquad \qquad b = 25 \quad , \qquad \qquad \qquad : z_1 = 6, z_2 = 8, z_3 = 24. \end{aligned}$$

$$\begin{aligned} & 1 \left(\qquad \qquad \right) \qquad \qquad \qquad 6 \end{aligned}$$

, 5 3.
 3, -
 6 -
 , -
 , 6 -
 3 -
 , 7 -
 6 . , -
 , -
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 9.



1 – , 2 – , 3 – ,
 4 – , 5 – , 6 – , 7 – ,
 , 8 – , 9 –

505

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 ,
 .

$$: N_{\Sigma} = 8500$$

[2]:

$$Re = \frac{n \cdot d^2 \cdot \dots}{\sim} \quad (13)$$

$n -$, $^{-1}$; $d -$, ; $\rho -$
 $, / ^3; \sim -$, $(\cdot) / ^2$.

Re
 $: 6,2 \cdot 10^5, 1,1 \cdot 10^6, 2 \cdot 10^6$. Re ,

$$\zeta=0,44. \quad (9)$$

$: 48,1 / , 64,5 / , 86,3 /$.

:

$Re > 10^6$.

1,77

: 1.

: 1991. 148 . 2.
 , - : , 1971, 784 . 3.

∴ , 1975, 559 . **4.** . 20031211201 02 13/14.
 / . . (). - 71234; . 09 12 2003; . 17 04
 2006, . 4. – 4 .

24.09.07

622.776.

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The article covers the proposal of separation blocks forming; witch allows changing the position of separation characteristic by X axis and the separators may have any type of straight separation characteristic.

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 [1] , -
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• .
 ,
 $r < r$, $r > r$ $P(r)=1$, . .
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